Monitoring Data Record

Project Title: R-3427 (US 601 Widening) COE Action ID: 200421361 & 200421362
Stream Name: UT Dry Branch (Site 6) DWQ Number: 3403
City, County and other Location Information: US 601, Yadkin County (64+20-66+08)
Date Construction Completed: Water turned 7-27-06 & Reforestation completed 3-10-06
Monitoring Year: (5) of 5
Ecoregion: 8 digit HUC unit 03040101
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 220' Urban or Rural: Rural Watershed Size:
Monitoring DATA collected by: M. Green and J. Young Date: 1/31/11
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Road Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level (**1** ~~2~~ ~~3~~)
Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Permit States: NCDOT shall perform the following components of Level I monitoring twice each year for the 5 year monitoring period (summer and winter): Reference photos, plant survival, and visual inspection of channel stability. If less than two bankfull events occur during the first 5 years, NCDOT shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the 5 year monitoring period, the USACE, in consultation with resource agencies, may determine that further monitoring is not required.

Section 1. PHOTO REFERENCE SITES
(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site:
A total of 8 photos were taken from 3 photo point locations.
Dates reference photos have been taken at this site: 1/6/07, 8/22/07, 1/30/08, 5/28/08, 1/13/09, 6/23/09, 3/9/10, 6/2/10, 1/31/11

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference: A site map with photo point locations is attached to this report.

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL
Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):
Small pockets of kudzu still exist along roadway shoulder.

Estimated causes, and proposed/required remedial action: Division Roadside sprayed the kudzu during the summer of 2010.

ADDITIONAL COMMENTS: Planted vegetation is surviving. Planted vegetation includes black willow, silky dogwood, green ash, river birch, and sycamore. Other vegetation noted on site includes: sweetgum, pine, fennel, briars, alder, red maple, sedge, goldenrod, woolgrass, *Juncus* sp., *Sagittaria* sp., cattail, kudzu, poplar, sweetgum, and various grasses.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

Stream is highly stabilized for the Year 5 Winter evaluation. All cross vanes are functioning properly and streambanks are stabilized with woody and herbaceous vegetation. There was evidence onsite that a bankfull event had occurred since the last monitoring evaluation. NCDOT will continue to monitor this stream relocation.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

Section 4. DEBIT LEDGER

The entire UT Dry Branch stream mitigation site was used for the R-3427 project to compensate for unavoidable stream impacts.

UT Dry Branch

Photo Point #1 (Upstream)

Photo Point #1 (Downstream)

Photo Point #2 (Upstream)

Photo Point #2 (Downstream)

Photo Point #3 (Upstream)

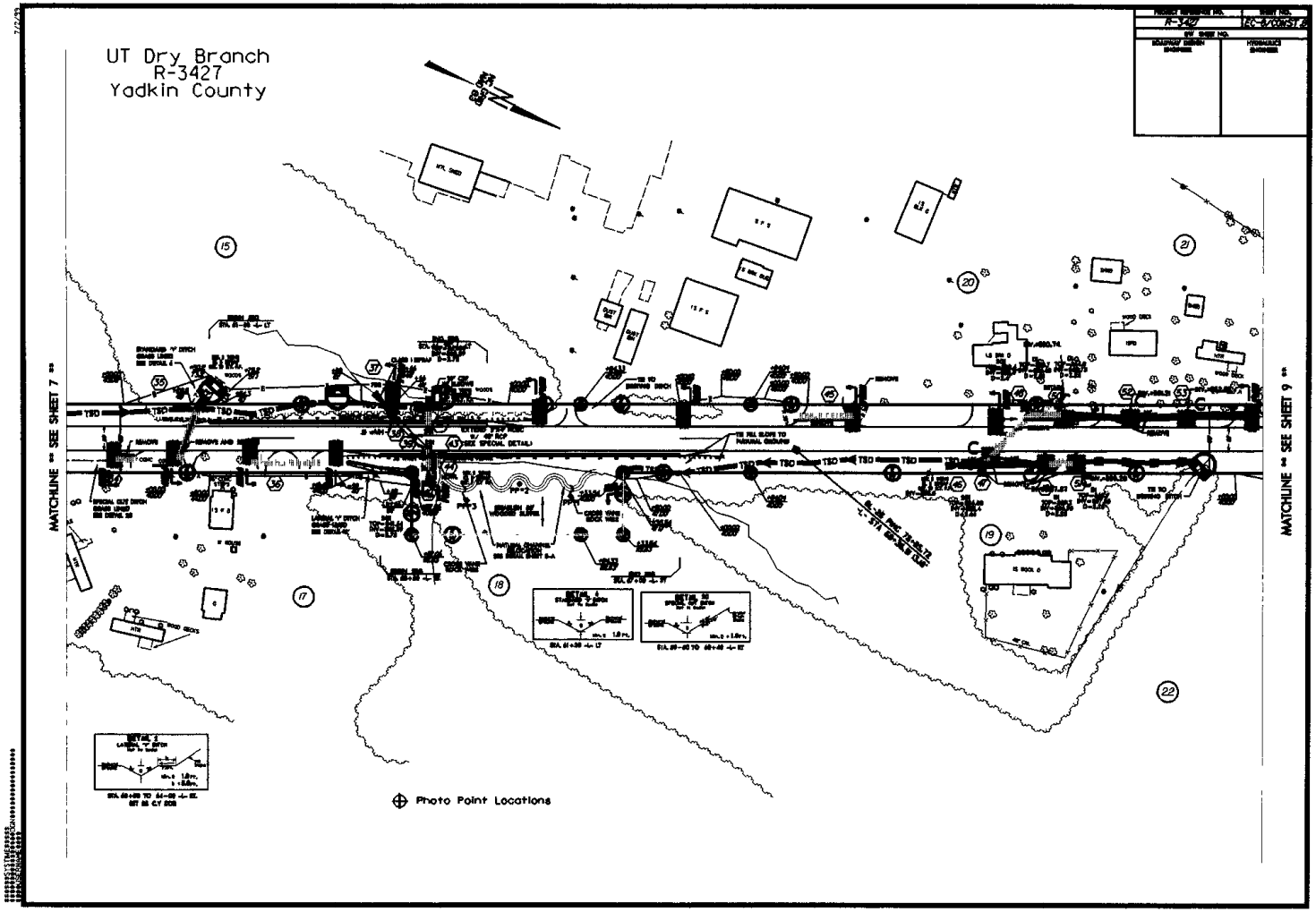
Photo Point #3 (Downstream)

UT Dry Branch

Photo Point #3 (Buffer Area)

Photo Point #3 (Buffer Area)

Year 5 Winter – January 2011


UT Dry Branch
R-3427
Yadkin County
MATCHLINE ** SEE SHEET 7 **
MATCHLINE ** SEE SHEET 9 **
Photo Point Locations